STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/645,304A
Source: IFW5
Date Processed by STIC: 4-29-05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED — SUGGESTED CORRECTION — SERIAL NUMBER: 10/645,304A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY FTO SOFTWARE

1 ____ Wrapped Nucleics / Wrapped Aminos — The number/ket at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .5; this will prevent "wrapping."

2 ____ Invalid Line Length — The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 ____ Misaligned Amino Numbering — The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 ____ Non-ASCII — The submitted file was not saved in ASCII(DOS)text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 ____ Variable Length — Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing

6 ____ Patentin 2.0 "bug" — A "bug" in Patentin version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 ____ Skipped Sequences (OLD RULES) — Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO X (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION SEQ ID NO X (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES" response to include the skipped sequence.

8 Skipped Sequences (NEW RULES) — Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence:
<210> sequence id number
<400> sequence id number
000

9 Use of n's or Xaa's (NEW RULES) — Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.821 of Sequence Rules, use of <220> - <221> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 Invalid <213> Response — Per 1.821 of Sequence Rules, the only valid <213> responses are Unknown, Artificial Sequence or scientific name (Genus/species). <220> - <223> section is required when <213> response is Unknown or is Artificial Sequence.

11 ____ Use of <220> — Use of <220> to <223> is MANDATORY if <213> Organism response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol 63, No 104, pp 29631-32) (See 1.823 of Sequence Rules)

12 ____ Patentin 2.0 "bug" — Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 ____ Misuse of n/Xaa — "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

AMC - Biotechnology Systems Branch - 09/09/2003

IFWO

RAW SEQUENCE LISTING DATE: 04/29/2005
PATENT APPLICATION: **US/10/645,304A** TIME: 15:13:57

Input Set : **D:\Angiogenix 1001 Sequence.txt**
Output Set: **N:\CRF4\04292005\J645304A.raw**

Does Not Comply
Corrected Diskette Needed
(pg. 1-5)

```
  3 <110> APPLICANT: Samuel , Stupp I.
  5 <120> TITLE OF INVENTION: CHARGED PEPTIDE-AMPHIPHILE SOLUTIONS & SELF ASSEMBLED
PEPTIDE
  6       NANOFIBER NETWORKS FORMED THEREBY
  8 <130> FILE REFERENCE: 126481.1001
 10 <140> CURRENT APPLICATION NUMBER: 10/645,304A
 11 <141> CURRENT FILING DATE: 2003-08-21
 13 <150> PRIOR APPLICATION NUMBER: 60/406,016
 14 <151> PRIOR FILING DATE: 2002-08-21
 16 <160> NUMBER OF SEQ ID NOS: 22
 18 <170> SOFTWARE: PatentIn version 3.2
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 7
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Artificial
 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: Cystine with a 16 carbon alkyl chain attached
 28 <400> SEQUENCE: 1
 30 Cys Cys Cys Cys Gly Gly Gly
 31 1               5
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 7
 36 <212> TYPE: PRT
 37 <213> ORGANISM: Artificial
 39 <220> FEATURE:
 40 <223> OTHER INFORMATION: Alanine with a 16 carbon alkyl chain attached
 42 <400> SEQUENCE: 2
 44 Ala Ala Ala Ala Gly Gly Gly
 45 1               5
 48 <210> SEQ ID NO: 3
 49 <211> LENGTH: 7
 50 <212> TYPE: PRT
 51 <213> ORGANISM: Artificial
 53 <220> FEATURE:
 54 <223> OTHER INFORMATION: Serine with a 16 carbon alkyl chain attached
 56 <400> SEQUENCE: 3
 58 Ser Leu Ser Leu Gly Gly Gly
 59 1               5
 62 <210> SEQ ID NO: 4
 63 <211> LENGTH: 7
 64 <212> TYPE: PRT
 65 <213> ORGANISM: Artificial
 67 <220> FEATURE:
 68 <223> OTHER INFORMATION: Cystein with a 16 carbon alkyl chain attached
```

What is the source of genetic material?

What is the source of genetic material?

What is the source of genetic material?

What is the source of genetic material?

↑ see item # 11 on error summary sheet.

RAW SEQUENCE LISTING DATE: 04/29/2005
PATENT APPLICATION: US/10/645,304A TIME: 15:13:57

Input Set : D:\Angiogenix 1001 Sequence.txt
Output Set: N:\CRF4\04292005\J645304A.raw

√ Same errors

```
70 <400> SEQUENCE: 4
72 Cys Cys Cys Cys Gly Gly Gly
73 1               5
76 <210> SEQ ID NO: 5
77 <211> LENGTH: 7
78 <212> TYPE: PRT
79 <213> ORGANISM: Artificial
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Alanine with a 16 carbon alkyl chain attached
84 <400> SEQUENCE: 5
86 Ala Ala Ala Ala Gly Gly Gly
87 1               5
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 7
92 <212> TYPE: PRT
93 <213> ORGANISM: Artificial
95 <220> FEATURE:
96 <223> OTHER INFORMATION: Serine with a 16 carbon alkyl chain attached
98 <400> SEQUENCE: 6
100 Ser Leu Ser Leu Gly Gly Gly
101 1               5
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 7
106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Cystein with a 16 carbon alkyl chain attached
112 <400> SEQUENCE: 7
114 Cys Cys Cys Cys Gly Gly Gly
115 1               5
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 7
120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Alanine with a 16 carbon alkyl chain attached
126 <400> SEQUENCE: 8
128 Ala Ala Ala Ala Gly Gly Gly
129 1               5
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 7
134 <212> TYPE: PRT
135 <213> ORGANISM: Artificial
137 <220> FEATURE:
138 <223> OTHER INFORMATION: Serine with a 16 carbon alkyl chain attached
140 <400> SEQUENCE: 9
142 Ser Leu Ser Leu Gly Gly Gly
143 1               5
146 <210> SEQ ID NO: 10
```

See item # 11 on error Summary Sheet.

RAW SEQUENCE LISTING DATE: 04/29/2005
PATENT APPLICATION: US/10/645,304A TIME: 15:13:57

Input Set : D:\Angiogenix 1001 Sequence.txt
Output Set: N:\CRF4\04292005\J645304A.raw

Same errors

147 <211> LENGTH: 7
148 <212> TYPE: PRT
149 <213> ORGANISM: Artificial
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Cystein with a 16 carbon alkyl chain attached
154 <400> SEQUENCE: 10
156 Cys Cys Cys Cys Gly Gly Gly
157 1 5
160 <210> SEQ ID NO: 11
161 <211> LENGTH: 7
162 <212> TYPE: PRT
163 <213> ORGANISM: Artificial
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Alanine with a 16 carbon alkyl chain attached
168 <400> SEQUENCE: 11
170 Ala Ala Ala Ala Gly Gly Gly
171 1 5
174 <210> SEQ ID NO: 12
175 <211> LENGTH: 7
176 <212> TYPE: PRT
177 <213> ORGANISM: Artificial
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Serine with a 16 carbon alkyl chain attached
182 <400> SEQUENCE: 12
184 Ser Leu Ser Leu Gly Gly Gly
185 1 5
188 <210> SEQ ID NO: 13
189 <211> LENGTH: 7
190 <212> TYPE: PRT
191 <213> ORGANISM: Artificial
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Cystein with a 16 carbon alkyl chain attached
196 <400> SEQUENCE: 13
198 Cys Cys Cys Cys Gly Gly Gly
199 1 5
202 <210> SEQ ID NO: 14
203 <211> LENGTH: 7
204 <212> TYPE: PRT
205 <213> ORGANISM: Artificial
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Alanine with a 16 carbon alkyl chain attached
210 <400> SEQUENCE: 14
212 Ala Ala Ala Ala Gly Gly Gly
213 1 5
216 <210> SEQ ID NO: 15
217 <211> LENGTH: 7
218 <212> TYPE: PRT
219 <213> ORGANISM: Artificial
221 <220> FEATURE:

Same errors

RAW SEQUENCE LISTING DATE: 04/29/2005
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Input Set : D:\Angiogenix 1001 Sequence.txt
Output Set: N:\CRF4\04292005\J645304A.raw

222 <223> OTHER INFORMATION: Serine with a 16 carbon alkyl chain attached
224 <400> SEQUENCE: 15
226 Ser Leu Ser Leu Gly Gly Gly
227 1 5
230 <210> SEQ ID NO: 16
231 <211> LENGTH: 7
232 <212> TYPE: PRT
233 <213> ORGANISM: Artificial
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Cystein with a 16 carbon alkyl chain attached
238 <400> SEQUENCE: 16
240 Cys Cys Cys Cys Gly Gly Gly
241 1 5
244 <210> SEQ ID NO: 17
245 <211> LENGTH: 7
246 <212> TYPE: PRT
247 <213> ORGANISM: Artificial
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Cystein with a 16 carbon alkyl chain attached
252 <400> SEQUENCE: 17
254 Ala Ala Ala Ala Gly Gly Gly
255 1 5
258 <210> SEQ ID NO: 18
259 <211> LENGTH: 7
260 <212> TYPE: PRT
261 <213> ORGANISM: Artificial
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Serine with a 16 carbon alkyl chain attached
266 <400> SEQUENCE: 18
268 Ser Leu Ser Leu Gly Gly Gly
269 1 5
272 <210> SEQ ID NO: 19
273 <211> LENGTH: 7
274 <212> TYPE: PRT
275 <213> ORGANISM: Artificial
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Cystein with a 16 carbon alkyl chain attached
280 <400> SEQUENCE: 19
282 Cys Cys Cys Cys Gly Gly Gly
283 1 5
286 <210> SEQ ID NO: 20
287 <211> LENGTH: 7
288 <212> TYPE: PRT
289 <213> ORGANISM: Artificial
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Alanine with a 16 carbon alkyl chain attached
294 <400> SEQUENCE: 20
296 Ala Ala Ala Ala Gly Gly Gly
297 1 5

RAW SEQUENCE LISTING DATE: 04/29/2005
PATENT APPLICATION: **US/10/645,304A** TIME: 15:13:57

Input Set : **D:\Angiogenix 1001 Sequence.txt**
Output Set: **N:\CRF4\04292005\J645304A.raw**

300 <210> SEQ ID NO: 21
301 <211> LENGTH: 7
302 <212> TYPE: PRT
303 <213> ORGANISM: Artificial
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Serine with a 16 carbon alkyl chain attached
308 <400> SEQUENCE: 21
310 Ser Leu Ser Leu Gly Gly Gly
311 1 5
314 <210> SEQ ID NO: 22
315 <211> LENGTH: 7
316 <212> TYPE: PRT
317 <213> ORGANISM: Artificial
319 <220> FEATURE:
320 <223> OTHER INFORMATION: X is 2,3-diaminopropionic acid
323 <220> FEATURE:
324 <221> NAME/KEY: misc_feature
325 <222> LOCATION: (5)..(7)
326 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
328 <400> SEQUENCE: 22
W--> **330 Ser Leu Ser Leu Xaa Xaa Xaa**
331 1 5

Same errors

Pls explain source of genetic material.

Invalid response

OK

See item #11 on error summary sheet.

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/29/2005
PATENT APPLICATION: US/10/645,304A TIME: 15:13:58

Input Set : D:\Angiogenix 1001 Sequence.txt
Output Set: N:\CRF4\04292005\J645304A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:22; Xaa Pos. 5,6,7

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22

VERIFICATION SUMMARY DATE: 04/29/2005
PATENT APPLICATION: **US/10/645,304A** TIME: 15:13:58

Input Set : **D:\Angiogenix 1001 Sequence.txt**
Output Set: **N:\CRF4\04292005\J645304A.raw**

L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0